

## **SUMMARY**

The Fast Flux Test Facility Project (FFTF) consists of WBS 2.1.1.1.21.1, Project Baseline Summary (PBS) RL-MS01, the Fast Flux Test Facility (FFTF) and WBS 1.12.1.1, PBS RL-TP11, the 309/Plutonium Recycle Test Reactor (PRTR) and NE Legacies. The performance tables and variance analysis that follow are for the combined totals of these two unless otherwise specified.

In October and November, the FFTF mission area technical accomplishments included machining in the 327 hot shop of the lower end bell and shaft on the Low Level Flux Monitor Blower (E230-R) and return of those parts to FFTF. Mechanical re-assembly of the E230-R Blower is nearly complete as planned. Revision 1 to the FFTF S/RIDS is also nearing completion as planned. DOE-RL comments have been incorporated, and the updated S/RIDS have been reviewed and approved by the FDH Interpretive Authorities and the RL Technical Reviewers. Sodium removal from the small 221-T Tank was completed as planned as part of the Nuclear Energy Legacies Deactivation. Testing of the FFTF Y2K contingency modifications was completed to allow the G3 Turbine Generator to carry the necessary plant electrical loads in case of loss of off-site power. The mechanical and electrical portions of the modification to install a hot gas bypass system for the FFTF ex-containment chillers E-22 and E-23 were completed on schedule. FFTF continued to build on safety performance with over 1.3 million hours worked since the last lost workday accident. The last OSHA recordable accident occurred in September 1998. A DOE HQ/RL team reviewed the FFTF FY 2000 cost estimate and were satisfied with the estimate and backup materials.

Fiscal-year-to-date milestone performance (EA, DOE-HQ, FO, and RL) shows no milestones are due.

## **ACCOMPLISHMENTS**

- Machining of the lower end bell and shaft on the E230-R Bearing Replacement was completed in the 327 hot shop and the parts returned to FFTF. Mechanical re-assembly of the E230-R Blower is nearing completion. (Planned)
- Revision 1 to the FFTF S/RIDS is nearing completion. DOE-RL comments have been incorporated, and the updated S/RIDS have been reviewed and approved by the FDH Interpretive Authorities and the RL Technical Reviewers. (Planned)
- Sodium removal from the small 221-T Tank was completed as part of the Nuclear Energy Legacies Deactivation. (Planned)
- Testing of the FFTF Y2K contingency modifications was completed to allow the G3 Turbine Generator to carry the necessary plant electrical loads in case of loss of off-site power. (B10-00-003)

- The mechanical and electrical portions of the modification to install a hot gas bypass system for the FFTF ex-containment chillers E-22 and E-23 was completed. (Planned)
- FFTF continued to build on safety performance with over 1.3 million hours worked since the last lost workday accident. The last OSHA recordable accident occurred in September 1998.
- A DOE HQ/RL team reviewed the FFTF FY 2000 cost estimate and were satisfied with the estimate and backup materials.

### **COST PERFORMANCE (\$M):**

	<b>BCWP</b>	<b>ACWP</b>	<b>VARIANCE</b>
<b>Fast Flux Test Facility Project</b>	\$6.5	\$5.6	+\$0.9

The favorable cost variance of \$.9M (13.8 percent) is due to reassignment of personnel and underruns in contracts and materials.

### **SCHEDULE PERFORMANCE (\$M):**

	<b>BCWP</b>	<b>BCWS</b>	<b>VARIANCE</b>
<b>Fast Flux Test Facility Project</b>	\$6.5	\$6.6	-\$0.1

The -\$0.1 (1.5 percent) unfavorable schedule variance is within the established 4 percent unfavorable threshold.

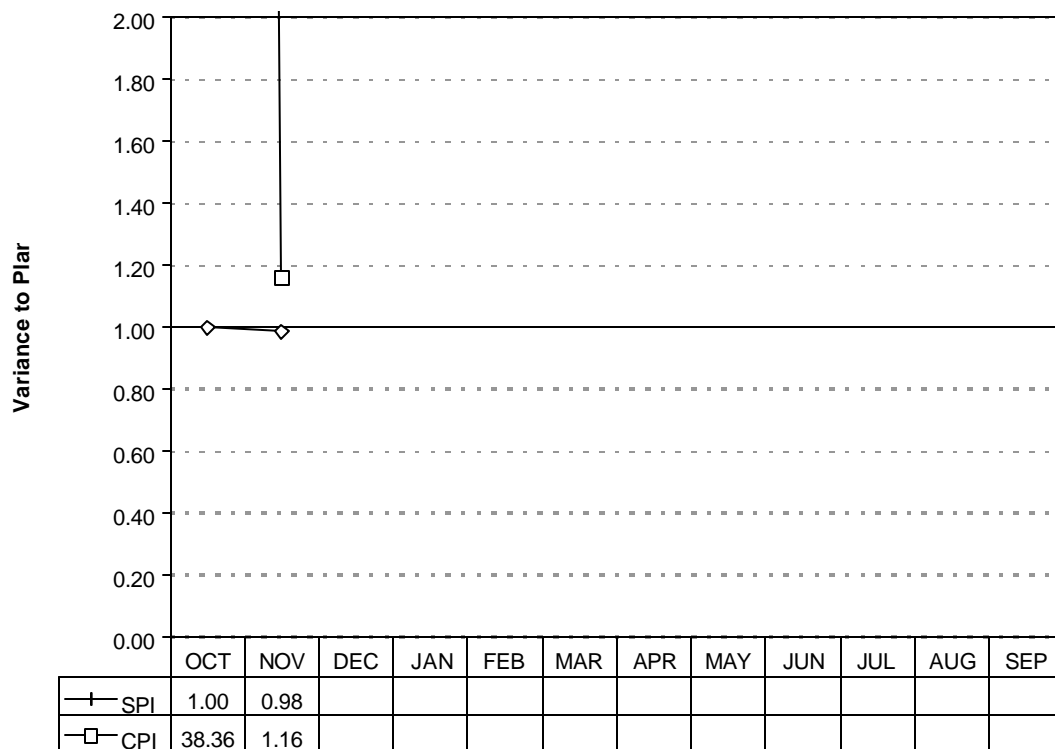
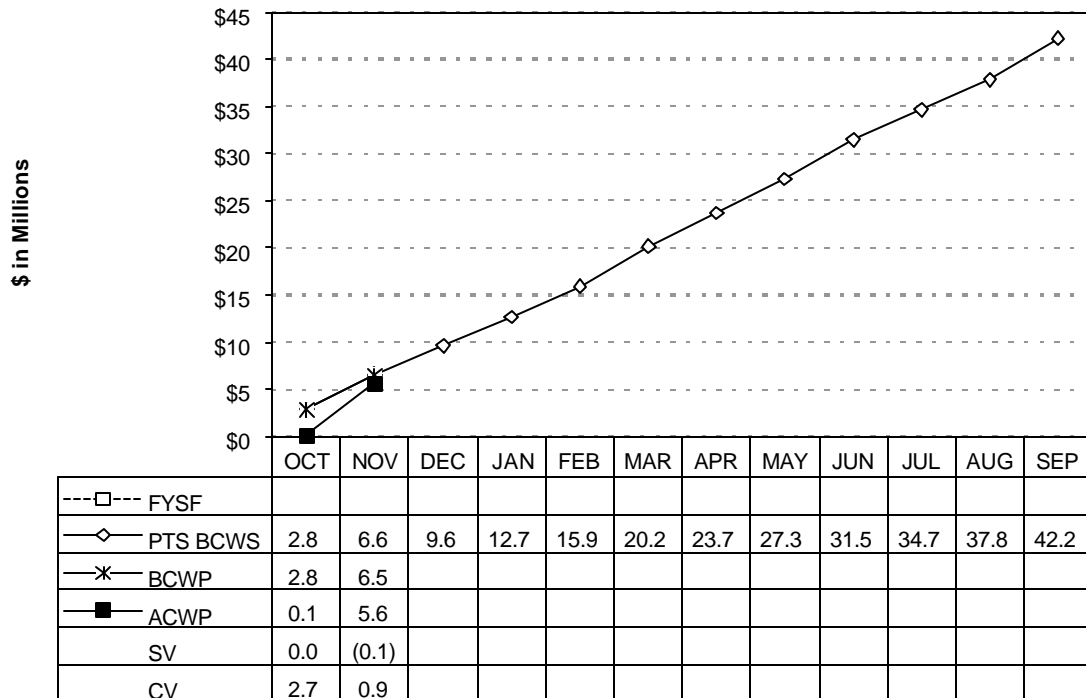
## **ISSUES**

**The FY 2000 budget guidance has \$28M for FFTF and \$1.4M for NE Legacies Activities:** The FFTF budget is significantly under required funding of \$41.0M. If additional funds are not provided, the approved baseline scope will not be accomplished and additional actions will be required to reduce FFTF staffing levels.

**Strategy:** DOE-HQ has submitted a reprogramming request to Congress for supplemental funding. Twenty-four FFTF staff were reassigned to other projects in October.

## FAST FLUX TEST FACILITY PROJECT WBS 1.12/2.1.1.1.21

### FY 1999 COST/SCHEDULE PERFORMANCE - ALL FUND TYPES Cumulative to Date Status



## FAST FLUX TEST FACILITY PROJECT

### WBS 1.12/2.1.1.1.21

			FYTD					AUTH	PTS
			BCWS	BCWP	ACWP	SV	CV	BSLN	BCWS
PBS									
TP11	Advanced	(1) Expense	0.2	0.2	0.1	0.0	0.1	1.3	1.3
	Reactors	CENRTC	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		GPP/LI	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Total	0.2	0.2	0.1	0.0	0.1	1.3	1.3
MS01	N/E	(2) Expense	6.4	6.3	5.4	(0.1)	0.9	41.8	41.8
		CENRTC	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		GPP/LI	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Total	6.4	6.3	5.4	(0.1)	0.9	41.8	41.8
	Advanced	Expense	6.6	6.5	5.6	(0.1)	0.9	43.1	43.1
	Transition	CENRTC	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		GPP/LI	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Total	6.6	6.5	5.6	(0.1)	0.9	43.1	43.1

\$ In Millions

- (1) Represents Environmental Management sponsored NE Legacies and 309 Building surveillance and maintenance as well as deferred decontamination of these facilities.
- (2) Portrays combined DOE Nuclear Energy and Environmental Management funded Fast Flux Test Facility Standby.

## **COST VARIANCE ANALYSIS: (+\$0.9M)**

### **WBS/PBS**

### **Title**

#### **2.1.1.1.21/MS-01**

#### **1.12/TP11**

#### **Fast Flux Test Facility Project**

**Description and Cause:** The cost variance results primarily from staffing below the budgeted baseline. This includes 9 positions, which were open at the beginning of the year and 24 staff who were reassigned at the end of October. Some contract cost was also not received.

**Impact:** Delays are expected on completion of the Solid Waste Cask design in FY 2000 and in its final repair. Impacts to health of the facility have not been quantified.

**Corrective Action:** The project will be rebaselined once the FY 2000 reprogramming request has been dispositioned and a funding level has been defined.

## **SCHEDULE VARIANCE ANALYSIS: (-\$0.1)**

**WBS/PBS**

**Title**

**2.1.1.1.21/MS-01**

**1.12/TP11                      Fast Flux Test Facility Project**

**Description and Cause:** The 1.5 percent unfavorable variance is within the established four percent unfavorable threshold.

**Impact:** None.

**Corrective Action:** None.

## FAST FLUX TEST FACILITY PROJECT – WBS 1.12/2.1.1.1.21.1

### MILESTONE ACHIEVEMENT

MILESTONE TYPE	FISCAL YEAR-TO-DATE				REMAINING SCHEDULED			TOTAL FY 2000
	Completed Early	Completed On Schedule	Completed Late	Overdue	Forecast Early	Forecast On Schedule	Forecast Late	
Enforceable Agreement	0	0	0	0	0	2	0	2
DOE-HQ	0	0	0	0	0	0	0	0
FO	0	0	0	0	0	0	0	0
RL	0	0	0	0	0	7	0	7
<b>Total Project</b>	0	0	0	0	0	9	0	9

## MILESTONE EXCEPTION REPORT

<u>Number/WBS</u>	<u>Level</u>	<u>Milestone Title</u>	<u>Baseline Date</u>	<u>Forecast Date</u>
-------------------	--------------	------------------------	----------------------	----------------------

### OVERDUE – 6 (FY 1999)

<b>B19-99-301</b>	<b>FO</b>	Complete Transfer of Irradiated	10/30/98	In
<b>2.1.1.1.21</b>		Fuel to Dry Cask Storage (M-81-00-T02)		Abeyance

**Cause:** As a consequence of FFTF being placed in standby, facility transition work has been limited to activities that would not inhibit reactor restart and TPA work schedules are no longer achievable or appropriate.

**Impact:** No programmatic impact.

**Corrective Action:** Tri-Party Agreement Change Request M-81-98-01 approved 8/24/99 and FDH Change Request FFTF-00-01 approved 12/2/99 places M-81-00 series milestones and target dates in abeyance until the Secretary of Energy issues a final decision on whether or not to restart FFTF.

<b>B19-99-302</b>	<b>FO</b>	Complete Transfer of	10/30/98	In
<b>2.1.1.1.21</b>		Un-Irradiated Fuel to PFP (M-81-00-T03)		Abeyance

**Cause:** As a consequence of FFTF being placed in standby, facility transition work has been limited to activities that would not inhibit reactor restart and TPA work schedules are no longer achievable or appropriate.

**Impact:** No programmatic impact.

**Corrective Action:** Tri-Party Agreement Change Request M-81-98-01 approved 8/24/99 and FDH Change Request FFTF-00-01 approved 12/2/99 places M-81-00 series milestones and target dates in abeyance until the Secretary of Energy issues a final decision on whether or not to restart FFTF.

<b>B19-99-303</b>	<b>FO</b>	Complete Transfer of Special Fuel	10/30/98	In
<b>2.1.1.1.21</b>		to INEL for Storage (M-81-00-T04)		Abeyance

**Cause:** As a consequence of FFTF being placed in standby, facility transition work has been limited to activities that would not inhibit reactor restart and TPA work schedules are no longer achievable or appropriate.

**Impact:** No programmatic impact.

**Corrective Action:** Tri-Party Agreement Change Request M-81-98-01 approved 8/24/99 and FDH Change Request FFTF-00-01 approved 12/2/99 places M-81-00 series milestones and target dates in abeyance until the Secretary of Energy issues a final decision on whether or not to restart FFTF.



## MILESTONE EXCEPTION REPORT

<u>Number/WBS</u>	<u>Level</u>	<u>Milestone Title</u>	<u>Baseline Date</u>	<u>Forecast Date</u>
<b>B69-99-302</b> <b>1.12.1.1</b>	<b>EA</b>	Submit Hanford Site Sodium Management Plan to Ecology (M-92-10)	10/31/98	In Abeyance

**Cause:** As a consequence of FFTF being placed in standby, facility transition work has been limited to activities that would not inhibit reactor restart and TPA work schedules are no longer achievable or appropriate.

**Impact:** This milestone is proposed to be placed “in abeyance”.

**Corrective Action:** Tri-Party Agreement Change Request M-92-98-01 approved 8/26/99 and FDH Change Request ART-2000-001 approved 12/7/99 places M-92-10 series milestones and target dates in abeyance until the Secretary of Energy issues a final decision on whether or not to restart FFTF.

<b>B17-99-102</b> <b>2.1.1.1.21</b>	<b>EA</b>	Submit FFTF End Point Criteria Document (M-81-03)	12/31/98	In Abeyance
--	-----------	---	----------	-------------

**Cause:** As a consequence of FFTF being placed in standby, facility transition work has been limited to activities that would not inhibit reactor restart and TPA work schedules are no longer achievable or appropriate.

**Impact:** No programmatic impact.

**Corrective Action:** Tri-Party Agreement Change Request M-81-98-01 approved 8/24/99 and FDH Change Request FFTF-00-01 approved 12/2/99 places M-81-00 series milestones and target dates in abeyance until the Secretary of Energy issues a final decision on whether or not to restart FFTF.

<b>B19-99-401</b> <b>2.1.1.1.21</b>	<b>FO</b>	Complete Interim Decay Storage/ Fuel Storage Facility Sodium Drain (M-81-04-T02)	12/31/98	In Abeyance
--	-----------	--	----------	-------------

**Cause:** As a consequence of FFTF being placed in standby, facility transition work has been limited to activities that would not inhibit reactor restart and TPA work schedules are no longer achievable or appropriate.

**Impact:** No programmatic impact.

**Corrective Action:** Tri-Party Agreement Change Request M-81-98-01 approved 8/24/99 and FDH Change Request FFTF-00-01 approved 12/2/99 places M-81-00 series milestones and target dates in abeyance until the Secretary of Energy issues a final decision on whether or not to restart FFTF.

## MILESTONE EXCEPTION REPORT

<u>Number/WBS</u>	<u>Level</u>	<u>Milestone Title</u>	<u>Baseline Date</u>	<u>Forecast Date</u>
-------------------	--------------	------------------------	----------------------	----------------------

### OVERDUE – 2 (FY 1998)

<b>B19-98-401</b>	<b>FO</b>	Complete Reactor and Heat Transport	4/30/98	In
<b>2.1.1.1.21</b>		System Sodium Drain (M-81-04-T01)		Abeyance

**Cause:** As a consequence of FFTF being placed in standby, facility transition work has been limited to activities that would not inhibit reactor restart and TPA work schedules are no longer achievable or appropriate.

**Impact:** No programmatic impact.

**Corrective Action:** Tri-Party Agreement Change Request M-81-98-01 approved 8/24/99 and FDH Change Request FFTF-00-01 approved 12/2/99 places M-81-00 series milestones and target dates in abeyance until the Secretary of Energy issues a final decision on whether or not to restart FFTF.

<b>B17-98-107</b>	<b>FO</b>	Submit Sodium Disposition Evaluation	6/30/98	In
<b>2.1.1.1.21</b>		Report/Decision Point (M-81-02-T01)		Abeyance

**Cause:** As a consequence of FFTF being placed in standby, facility transition work has been limited to activities that would not inhibit reactor restart and TPA work schedules are no longer achievable or appropriate.

**Impact:** No programmatic impact.

**Corrective Action:** Tri-Party Agreement Change Request M-81-98-01 approved 8/24/99 and FDH Change Request FFTF-00-01 approved 12/2/99 places M-81-00 series milestones and target dates in abeyance until the Secretary of Energy issues a final decision on whether or not to restart FFTF.